In the Abstract:

Please replace the Abstract with the following:

ABSTRACT OF THE DISCLOSURE

Apparatus and methods are provided for obtaining high dynamic range images using a low dynamic range image sensor. The image of a scene is captured with an image sensor using a spatially varying exposure function. The spatially varying exposure function can be implemented in a number of ways, such as by using as an optical mask with a fixed spatial attenuation pattern or by using an array of light sensing elements having spatially varying photosensitivities. The captured image is then normalized with respect to the spatially varying exposure function. The normalized image data can be interpolated to account for pixels that are either saturated or blackened to enhance the dynamic range of the image sensor.

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